

1. A method for contrast-enhanced diagnostic imaging of a specific tissue or tissue component that is undergoing or that has undergone interventional therapy, comprising the steps of:

(b) subjecting the patient to one of MRI, ultraviolet light, visible light or infrared light imaging; and

2. The method of claim 1, wherein the IEM is selected from the group consisting of organic molecules, metal ions, salts and chelates, particles, clusters, iron particles, labeled peptides, proteins, polymers, liposomes, organic dyes and inorganic dyes.

4. The method of claim 3, wherein the metal ion is a paramagnetic metal ion with atomic numbers 21-29, 42, 44 or 57-83.

20. The method of claim 18, wherein at least 50% of the agent binds to human serum albumin in its native state.

22. The method of claim 18, wherein at least 95% of the agent binds to human serum albumin in its native state.

23. The method of claim 18, wherein the contrast agent exhibits a binding affinity for human serum albumin in its denatured state which is less than about 80% of the contrast agent's binding affinity for the human serum albumin in its native state.

24. The method of claim 18, wherein the contrast agent exhibits a binding affinity for human serum albumin in its denatured state which is less than about 50% of the contrast agent's binding affinity for the human serum albumin in its native state.

25. The method of claim 18, wherein the contrast agent exhibits a binding affinity for human serum albumin in its denatured state which is less than about 20% of the contrast agent's binding affinity for the human serum albumin in its native state.

32. The method of claims 1 or 18, wherein the contrast agent exhibits an R_1 relaxivity when the interventional therapy is complete and the targeted tissue or tissue component is returned to physiological conditions which is less than about 50% of the R_1 relaxivity of the contrast agent when bound to the tissue or tissue component in its native state.

33. The method of claims 1 or 18, wherein the contrast agent exhibits an R_1 relaxivity when the interventional therapy is complete and the targeted tissue or tissue component is returned to physiological conditions which is less than about 20% of the R_1 relaxivity of the contrast agent when bound to the tissue or tissue component in its native state.

34. The method of claims 1 or 18, wherein the contrast agent exhibits an R_1 relaxivity when the interventional therapy is complete and the targeted tissue or tissue component is returned to physiological conditions which is less than about 10% of the R_1 relaxivity of the contrast agent when bound to the tissue or tissue component in its native state.

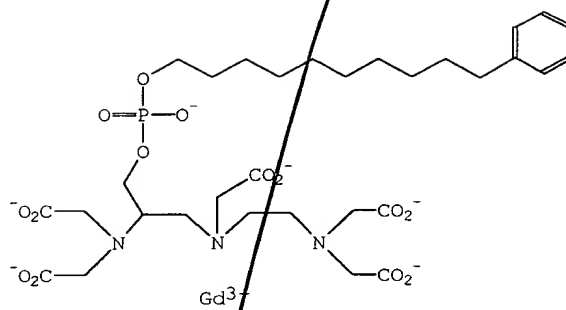
35. A method for contrast-enhanced diagnostic imaging of a specific tissue or tissue component that is

(a) administering to a patient a contrast agent having one of the following formulas:

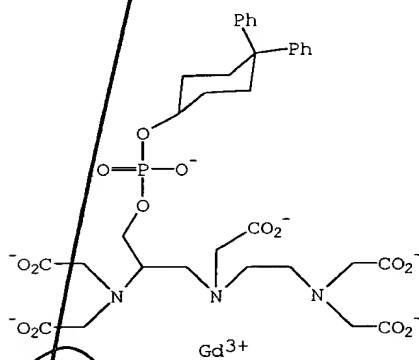


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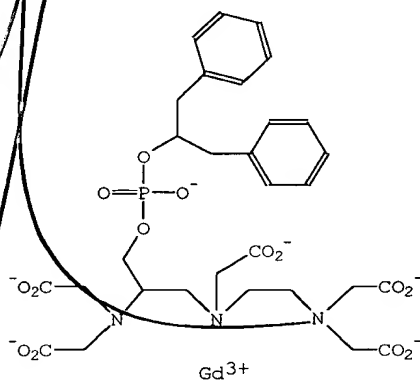
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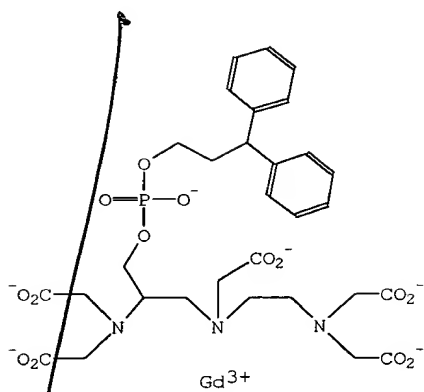
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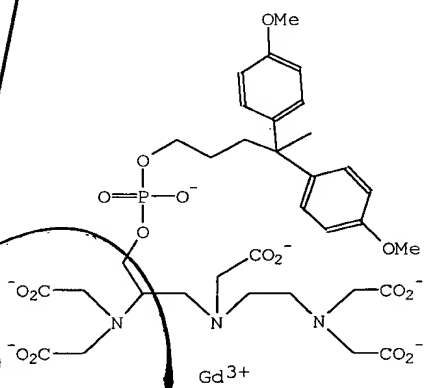
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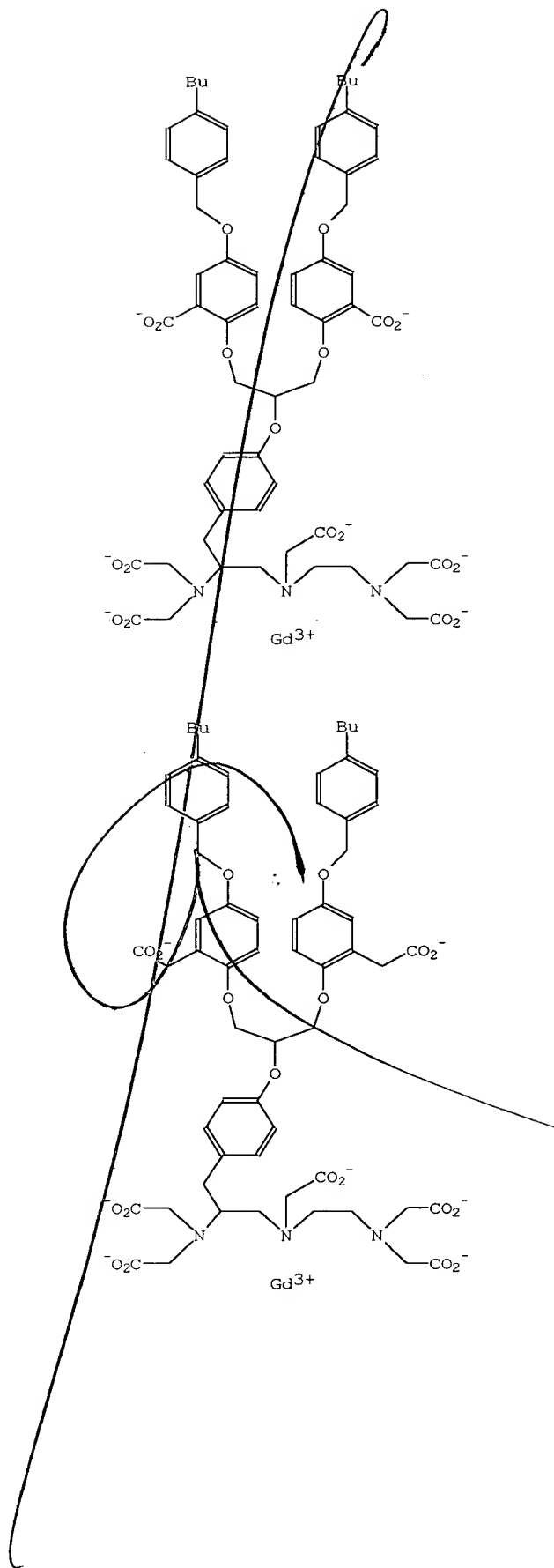
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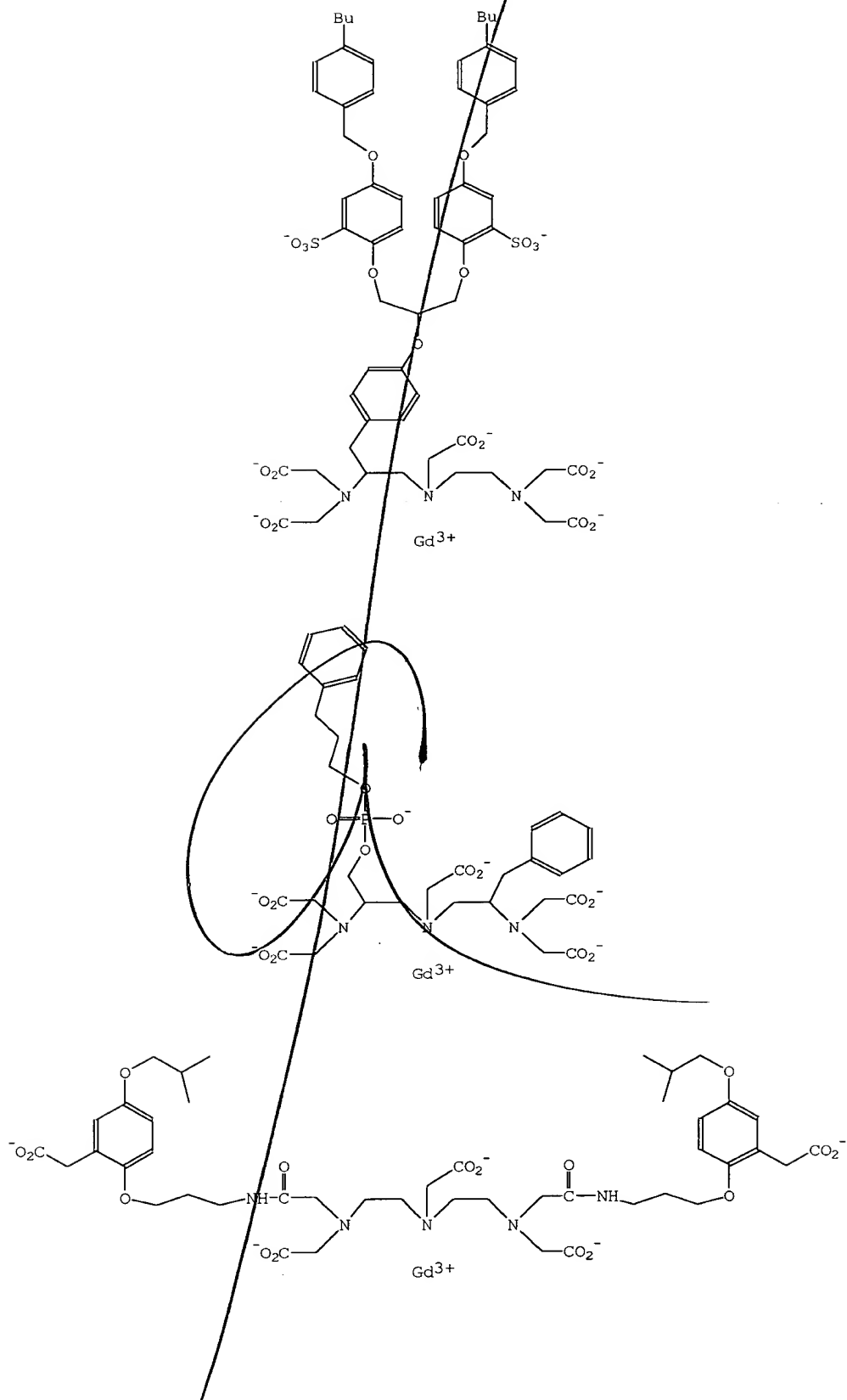


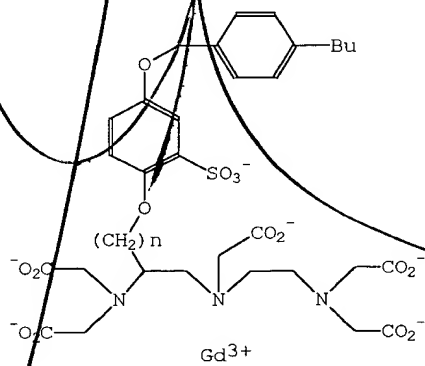
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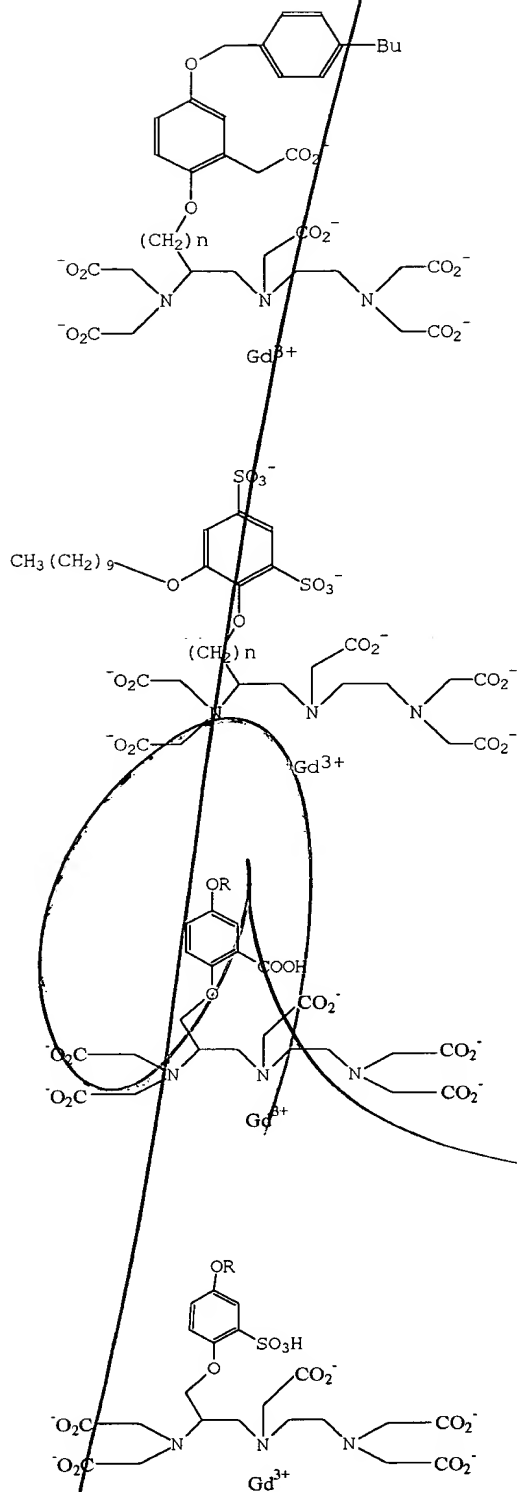






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wherein n can be 1 to 4, and R comprises an aliphatic group and/or at least 1 aryl ring;

(b) subjecting the patient to one of MRI, ultraviolet light, visible light or infrared light imaging; and

(c) monitoring an imaging signal characteristic of the contrast agent to determine whether the interventional therapy is complete.

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